

Title (en)

Method and apparatus for providing feedback in an enhanced uplink network

Title (de)

Verfahren und Vorrichtung zur Bereitstellung einer Rückmeldung in einem erweiterten Aufwärtsstrecken-Netzwerk

Title (fr)

Procédé et appareil pour fournir une rétroaction dans un réseau de liaison montante amélioré

Publication

**EP 2462760 B1 20150603 (EN)**

Application

**EP 10745502 A 20100806**

Priority

- US 23184809 P 20090806
- US 24878509 P 20091005
- US 85139810 A 20100805
- US 2010044799 W 20100806

Abstract (en)

[origin: WO2011017675A1] Various processing options and systems are provided for setting/controlling feedback indicators referred to as "Happy Bits" in a wireless communication network using multiple uplink carriers. In one aspect, a Happy Bit is determined independently for each one of a plurality of uplink carriers based on channel conditions and buffer lengths for the respective carrier. For example, if a UE is transmitting the maximum data allowed by its serving grant for that carrier, the UE has available power to increase the data rate on that carrier, and the TEBS delay is greater than a certain threshold, then the Happy Bit for that carrier may be set to Unhappy to inform the Node B that the UE is capable of transmitting at a higher data rate on that carrier.

IPC 8 full level

**H04W 28/22** (2009.01); **H04L 1/00** (2006.01); **H04L 5/00** (2006.01); **H04W 52/36** (2009.01); **H04W 72/12** (2009.01)

CPC (source: BR EP KR US)

**H04L 1/0002** (2013.01 - BR EP US); **H04L 1/0023** (2013.01 - BR EP US); **H04L 5/0001** (2013.01 - BR); **H04L 5/001** (2013.01 - EP US); **H04L 5/0057** (2013.01 - BR EP US); **H04W 28/16** (2013.01 - KR); **H04W 28/22** (2013.01 - BR EP KR US); **H04W 72/21** (2023.01 - US); **H04L 2001/0096** (2013.01 - BR EP US); **H04W 52/367** (2013.01 - EP US); **H04W 72/21** (2023.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**WO 2011017675 A1 20110210**; BR 112012002557 A2 20171128; BR 112012002557 A8 20180626; BR 112012002557 B1 20210518; CN 102474759 A 20120523; CN 102474759 B 20150812; EP 2462760 A1 20120613; EP 2462760 B1 20150603; ES 2546524 T3 20150924; JP 2013501481 A 20130110; JP 5404929 B2 20140205; KR 101433274 B1 20140822; KR 20120041250 A 20120430; US 2011075742 A1 20110331; US 8767639 B2 20140701

DOCDB simple family (application)

**US 2010044799 W 20100806**; BR 112012002557 A 20100806; CN 201080034423 A 20100806; EP 10745502 A 20100806; ES 10745502 T 20100806; JP 2012523992 A 20100806; KR 20127005984 A 20100806; US 85139810 A 20100805